

Debakar Roy

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[github](#) | [linkedin](#) | [blog](#)

EXPERIENCE

Intel Corporation

August 2019 - Present

Software Engineer

Karnataka, IN

- Developed and implemented automation solutions in multiple domains, including power management, sensor technology, artificial intelligence (computer vision), security, and type-C subsystems.
- Utilized industry-standard DevOps tools to establish an efficient continuous integration and delivery (CI/CD) pipeline for delivering the framework and libraries.
- Established a remote execution environment that enabled testers to execute scenarios without the need to be physically present in front of the test setup, resulting in increased efficiency and flexibility.
- Served as a core contributor and maintainer of the framework, responsible for overseeing the code review process to maintain high standards of quality throughout the code base.
- Trained multiple developers at team, organizational, and geographical levels in various DevOps topics, providing expertise and guidance in implementing best practices and driving efficiency in software development processes.
- Leverage Knowledge in Python, Poetry (Python package manager), Jenkins, Docker, Kubernetes, Terraform, VNC, Serial port communication.

Intel Corporation

July 2018 - August 2019

Undergrade Intern Technical

Karnataka, IN

- RFKPI Automation: Python based in-house automation framework to automate RF performance and compliance to 3GPP for all operating modes (2G, 3G, and 4G) during development and production.
- Leverage knowledge in Git, Intel XMM modems, programmed in Python using PyCharm IDE, run on CMW and Anritsu Wideband Radio Communication Tester.

EDUCATION

Bachelor of Technology, Computer Science

August 2015 - July 2019

Siliguri Institute of Technology, 9.12 DGPA

West Bengal, IN

SKILLS

Programming Languages	Experienced: Python Familiar: Rust Bash C++ JavaScript
Software Development	Programming Paradigms Design Patterns Agile methodologies Git REST CLI CI/CD
Frameworks & Libraries	FastAPI Flask Vue Pandas Selenium Playwright Poetry HUGO
DevOps	Jenkins Kubernetes Docker CloudFoundry Rancher Terraform
Languages	Native: Hindi Fluent: English Beginner: Japanese Korean Mandarin

PROJECTS

kisskh-dl

July 2022

Simple CDrama/KDrama downloader

[Source](#)

- Developed a python package with a command line interface to download CDrama/KDrama.
- Incorporate conversion of m3u8 stream into mp4/mkv.
- Implement the CI/CD to deploy a Python package in PyPI when new tag is applied to the repository.
- Utilized: Python, requests, click.

Fetch Random Technical Tweets

December 2022

Fetch random technical tweets from pre-defined Twitter users

[Source](#)

- Developed a Vue application and deployed it in Vercel.
- Integrated the app with a REST API backed up with json-server in Vercel.
- Developed a scheduled automated pipeline which updates the database used by REST API.
- Utilized: Vue, Python, Twitter API, json-server.

Flappy NEAT

February 2018

Play Flappy Bird using NeuroEvolution of Augmenting Topologies

[Source](#)

- Implementation of NeuroEvolution of Augmenting Topologies algorithm and visualizing the result with the help of Flappy Bird game i.e. using Genetic Algorithm to evolve Neural Networks.
- Utilized: Python, Numpy, pygame.

Myanimelist Data Set Creator

February 2018

Parse and store data of Myanimelist for Data Analytics

[Source](#)

- Developed using Python to create MyAnimeList Anime and User data set using REST API. Planned on using it for a recommendation system.
- Utilized: Python, Numpy, pygame.